

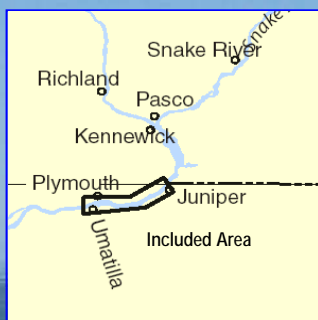
# BookletChart™

## Columbia River – McNary Dam to Juniper

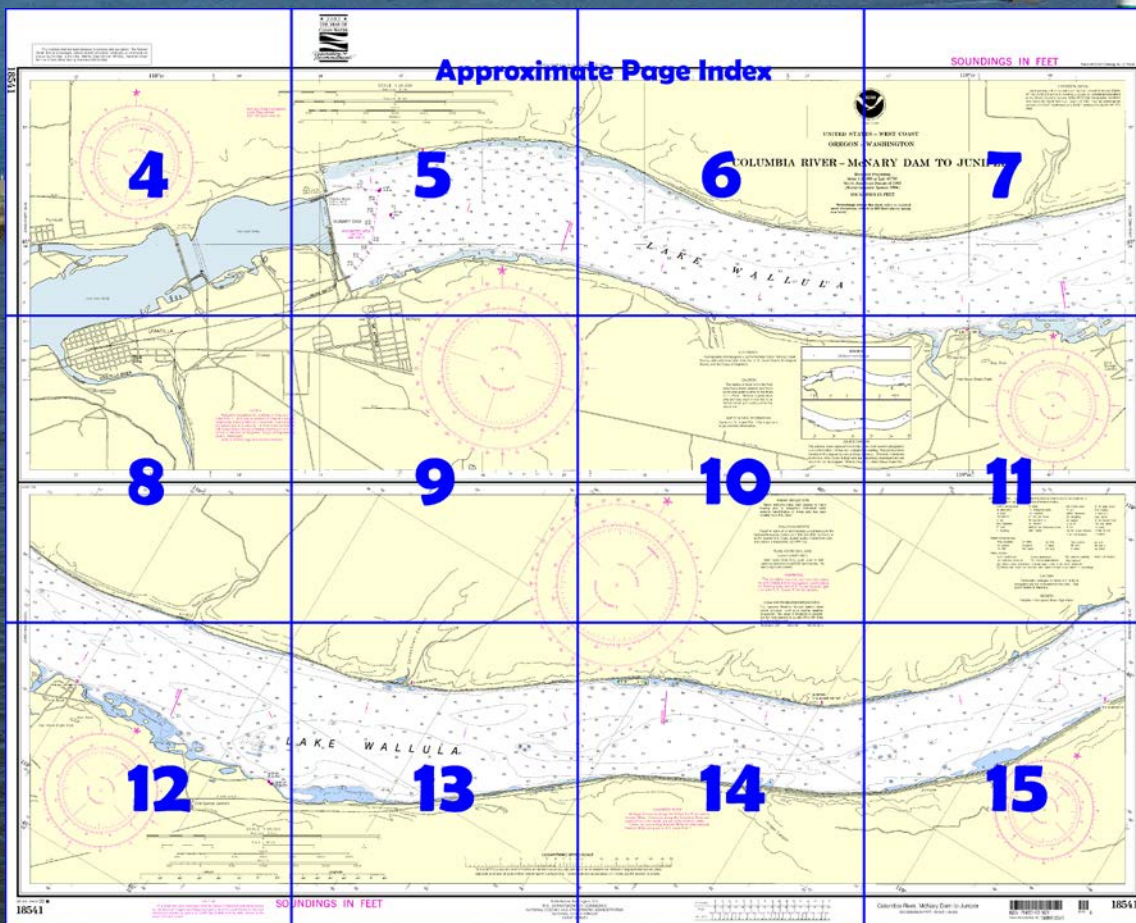
NOAA Chart 18541

*A reduced-scale NOAA nautical chart for small boaters*

*When possible, use the full-size NOAA chart for navigation.*



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



**Published by the**  
**National Oceanic and Atmospheric Administration**  
**National Ocean Service**  
**Office of Coast Survey**  
[www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov)  
**888-990-NOAA**

### What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

### What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

### Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <http://www.nauticalcharts.noaa.gov/ncd/searchbychart.php?chart=18541>.



#### (Selected Excerpts from Coast Pilot)

**McNary Lock and Dam**, 254.5 (292.9) miles above the mouth of the Columbia River and just above Umatilla, has a single lift lock with a vertical lift of about 75 feet. A **restricted area** is above the dam. (See **207.718**, chapter 2, for information concerning use, administration, and navigation of McNary Lock and Dam.) Depths and overhead clearances are at **normal pool level**.

**Lake Wallula**, the pool created by

McNary Dam, provides slack-water navigation from McNary Dam to the junction with the **Yakima River**, a distance of about 37(43) miles. Depths

in the lake are generally deep, however, there are several isolated shallow spots and rocky areas along the length of the lake. The channel through the lake is marked by aids to navigation from the Walla Walla River to Richland, 40 (46) miles above McNary Dam.

The **Port of Umatilla**, on the Oregon side, about 0.4 mile above the McNary Lock and Dam, owns a 230-foot port wharf with 800 feet of berthing space; reported depths of 20 feet are available alongside; a private company operates the wharf. A grain elevator, owned and operated by Pendleton Grain growers, Inc., has a loading rate of 20,000 bushels per hour; the grain elevator is just E of the port wharf. A barge wharf, used for receipt and shipment of petroleum products and liquid fertilizer, is just E of the grain elevator; the oil wharf is owned and operated by the Tidewater Barge Lines.

**Hat Rock State Park**, on the S side about 5.5 (6.3) miles above McNary Dam, has a public launching ramp and offers excellent protection for small craft. Gasoline is available here.

**Port Kelley**, on the E side of Columbia River, 16 (19.5) miles above McNary Dam, has a large grain elevator and facilities for handling bulk grain by rail, truck, or water. The elevator loading rate is 30,000 bushels per hour. Unlighted ranges lead clear of the rock and shoal area in the middle ground 0.4 mile W of the facility.

A small boat moorage is in the bight just NE of Port Kelley. Berths, electricity, gasoline, and water are available.

**Walla Walla River** enters Columbia River on the E side 18.4 (21.2) miles above McNary Dam. There is a public launching ramp on the S side of the river just E of the highway bridges at the entrance.

A grain wharf, at **Wallula Junction** just S of the Walla Walla River, has a grain elevator and barge loading spout with a loading rate of 20,000 bushels per hour; a reported depth of 20 feet is alongside the wharf. The wharf is owned and operated by Walla Walla Grain Growers, Inc. A barge wharf, at the **Port of Walla Walla** just S of **Attalia**, is owned and operated by Boise Cascade Corporation. The wharf ships wood pulp and receives caustic soda. A reported depth of 12 feet is alongside.

About 1.9 miles S of the Snake River mouth, on the W side of Lake Wallula, is the Unocal Corporation chemical plant; anhydrous ammonia and urea are received here by barge. The dock has 480 feet of berthing space and has a reported depth of 30 feet alongside. Two white ammonia storage tanks at this plant are prominent.

The Union Pacific Railroad bridge crossing Columbia River, 27 (31) miles above McNary Dam, has a vertical lift span with a clearance of 11 feet down and 72 feet up. The bridgetender monitors VHF-FM channel 16 and works on channel 13; call sign KTD-561. (See **117.1 through 117.59 and 117.1035**, chapter 2, for drawbridge regulations.)

### U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Seattle

Commander  
13<sup>th</sup> CG District  
Seattle, WA

(206) 220-7001

# Navigation Managers Area of Responsibility



**NOAA's navigation managers** serve as ambassadors to the maritime community.

They help identify navigational challenges facing professional and recreational mariners, and provide NOAA resources and information for safe navigation. For additional information, please visit [nauticalcharts.noaa.gov/service/navmanagers](http://nauticalcharts.noaa.gov/service/navmanagers)

To make suggestions or ask questions online, go to [nauticalcharts.noaa.gov/inquiry](http://nauticalcharts.noaa.gov/inquiry).

To report a chart discrepancy, please use [ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx](http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx).

## Lateral System As Seen Entering From Seaward

on navigable waters except Western Rivers



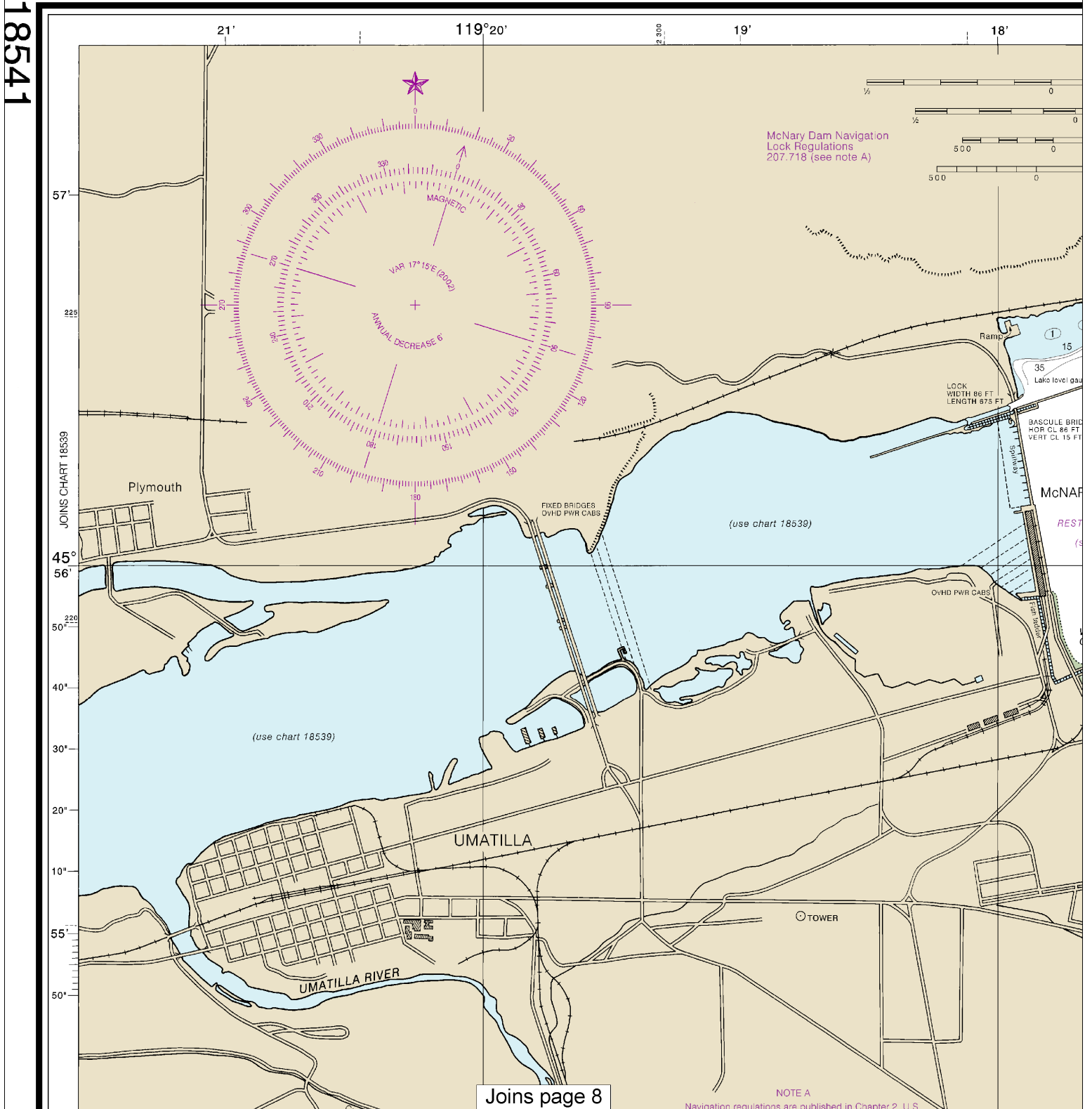
For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area.

These volumes are available online at <http://www.navcen.uscg.gov>



NOAA encourages users to submit inquiries, discrepancies or comments about this chart at <http://www.nauticalcharts.noaa.gov/staff/contact.htm>.

18541



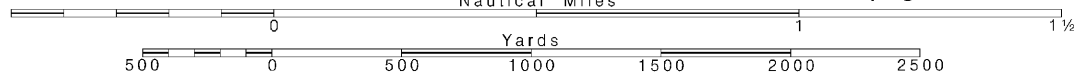
4

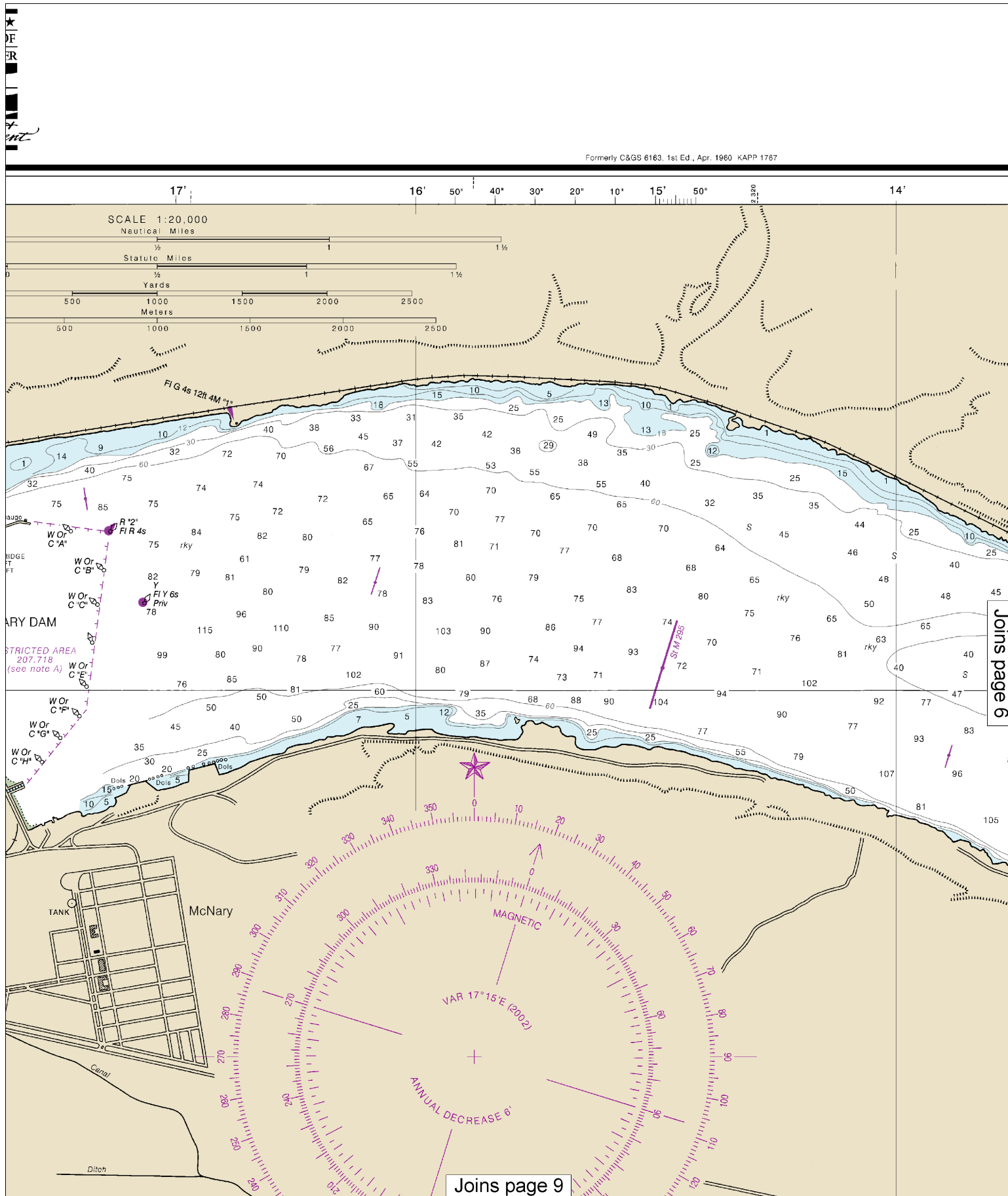
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:20,000

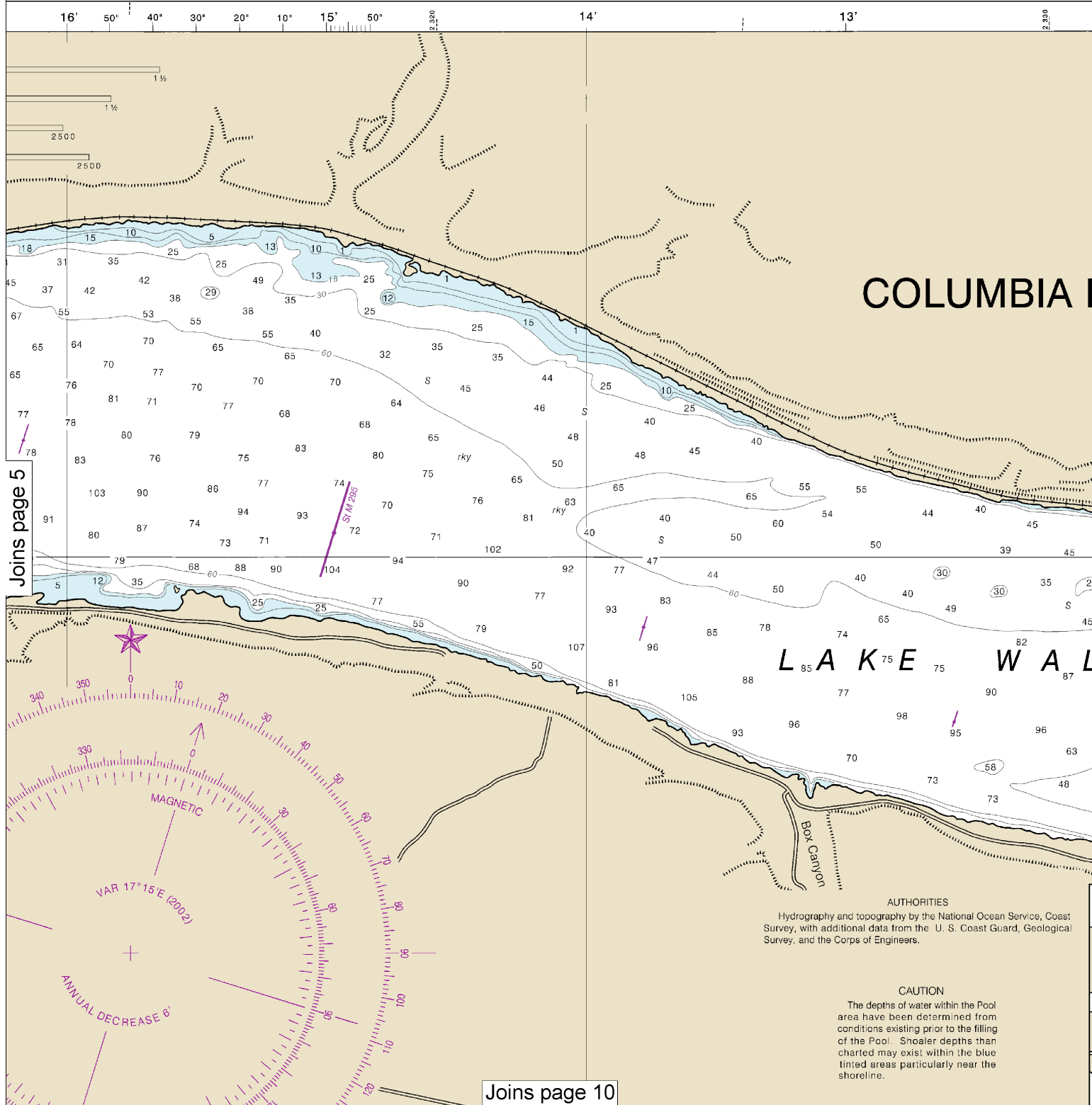
See Note on page 5.





This BookletChart was reduced to 75% of the original chart scale.  
The new scale is 1:26666. Barscales have also been reduced and  
are accurate when used to measure distances in this BookletChart.

Formerly C&GS 6163, 1st Ed., Apr. 1960 KAPP 1767



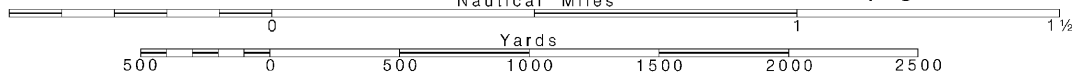
6

Note: Chart grid lines are aligned with true north.

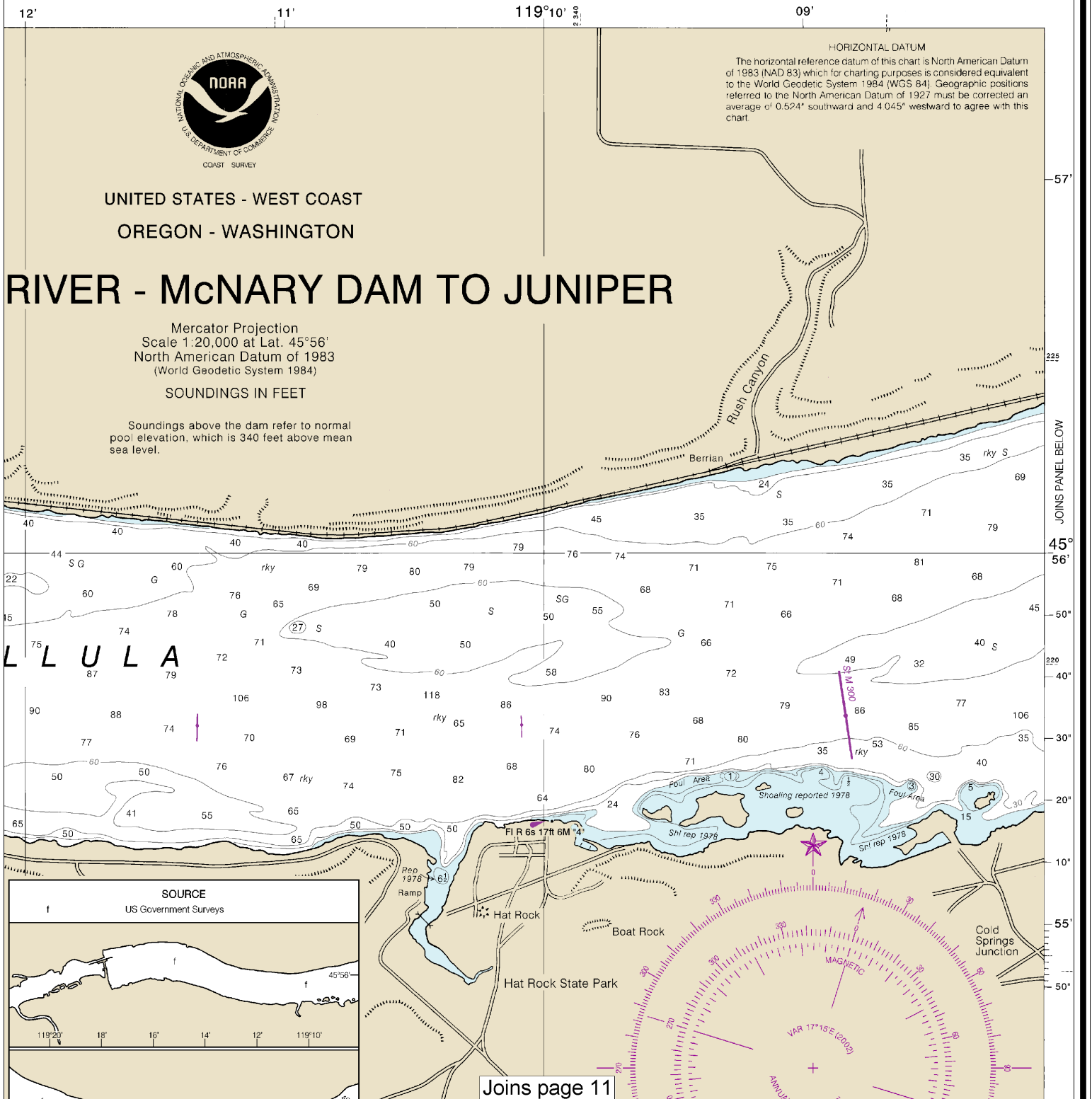
Printed at reduced scale.

SCALE 1:20,000

See Note on page 5.



# SOUNDINGS IN FEET



Joins page 4

(use chart 18539)

UMATILLA

UMATILLA RIVER

Canal

TOWER

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, Washington or at the Office of the District Engineer, Corps of Engineers in Seattle, Washington. Refer to charted regulation section numbers.

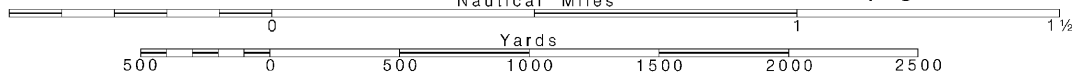
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, Washington or at the Office of the District Engineer, Corps of Engineers in Seattle, Washington.

Refer to charted regulation section numbers.

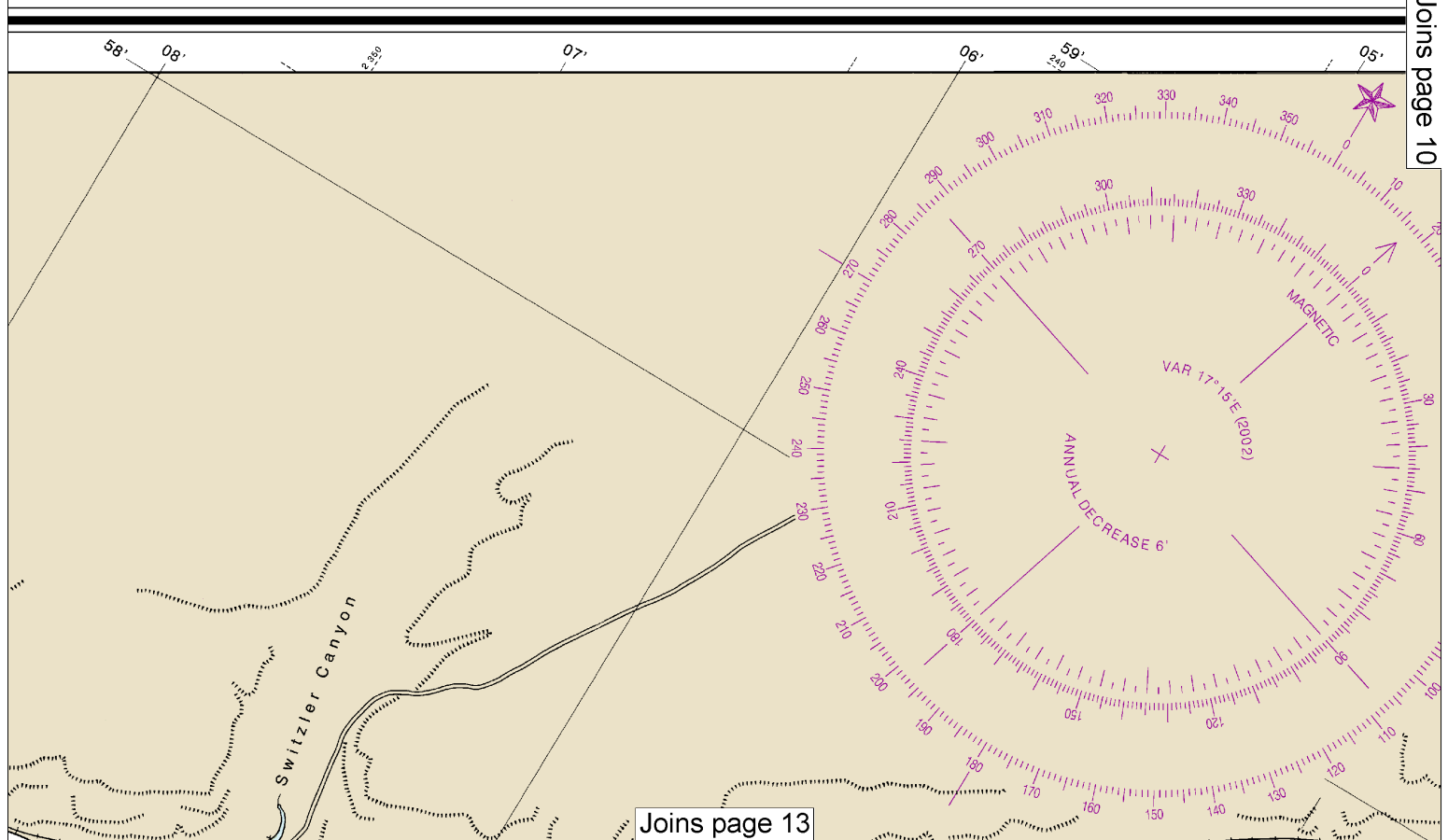
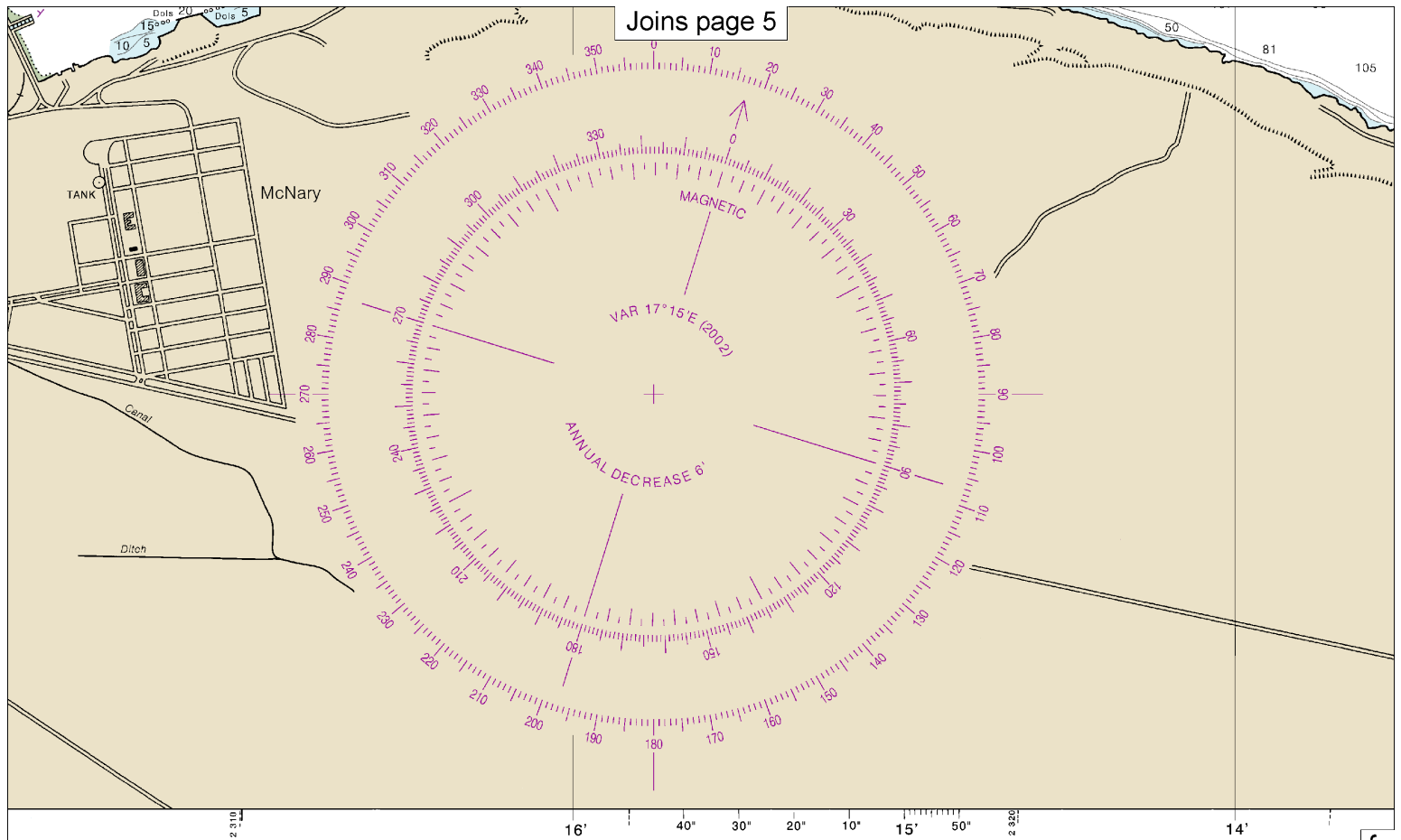


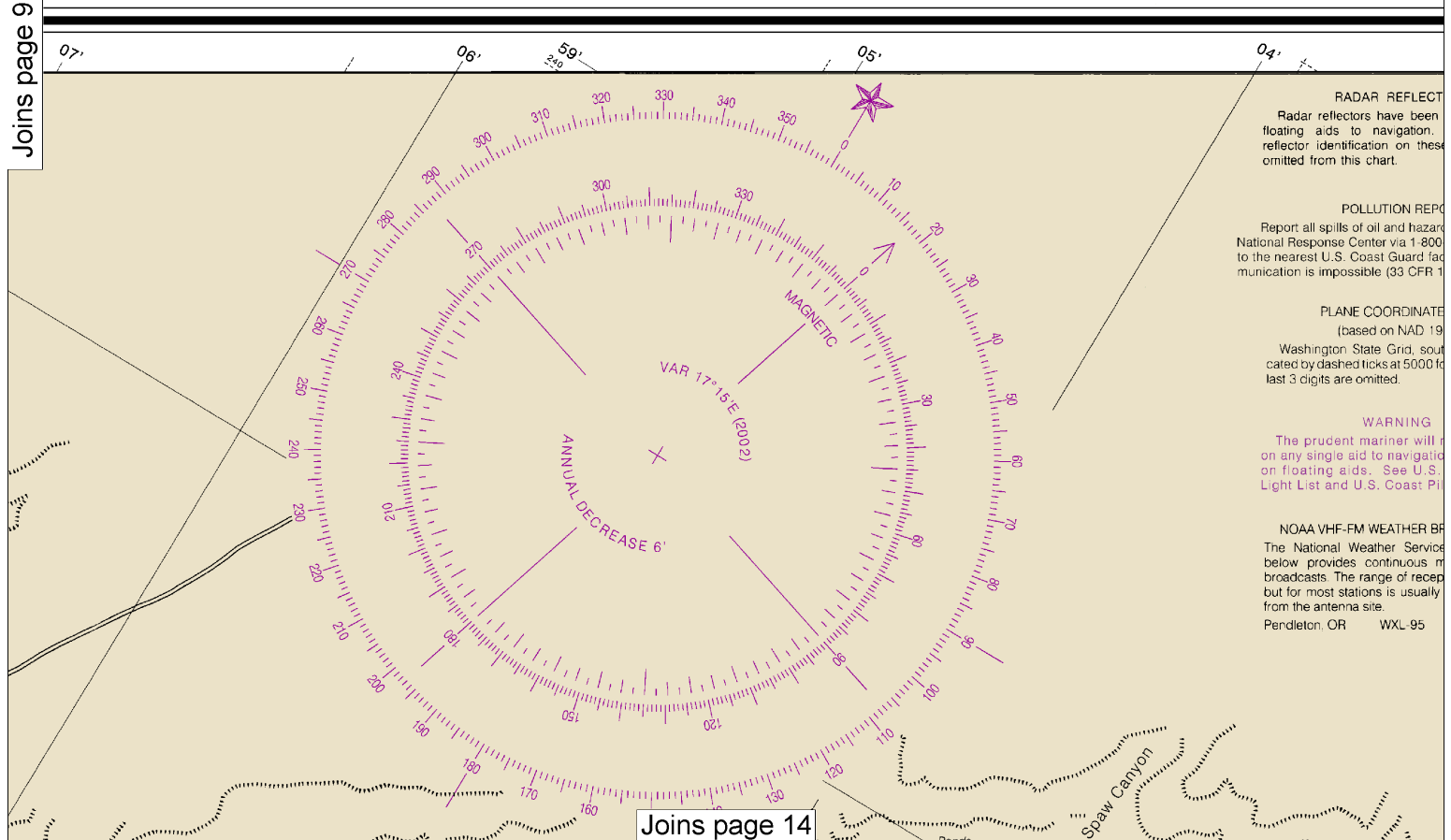
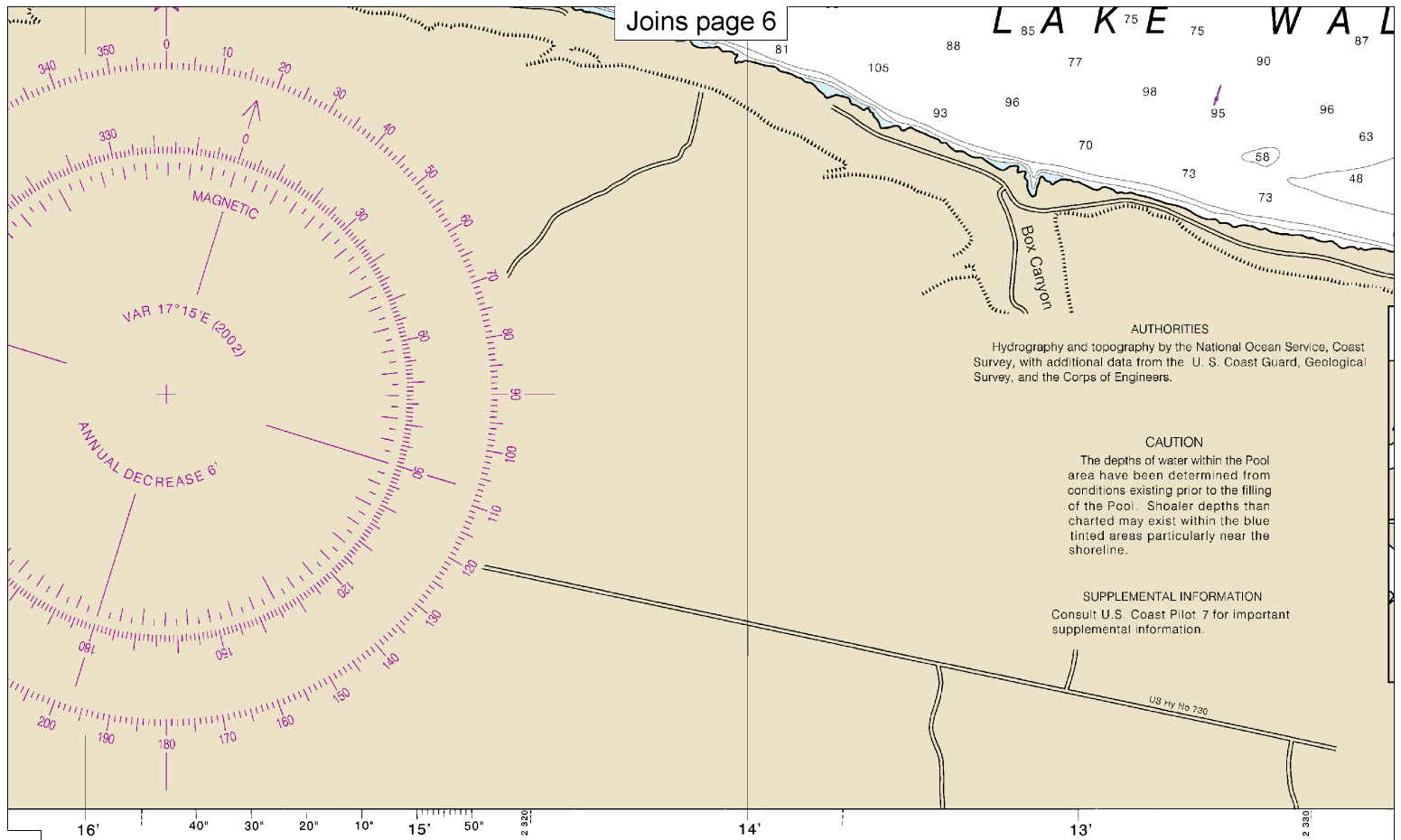
Printed at reduced scale.

See Note on page 5.



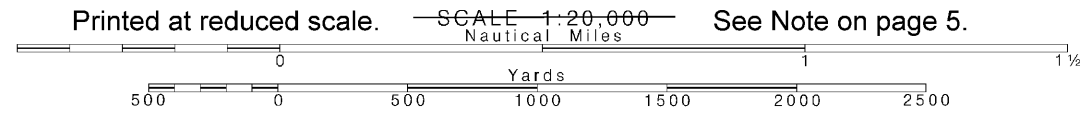


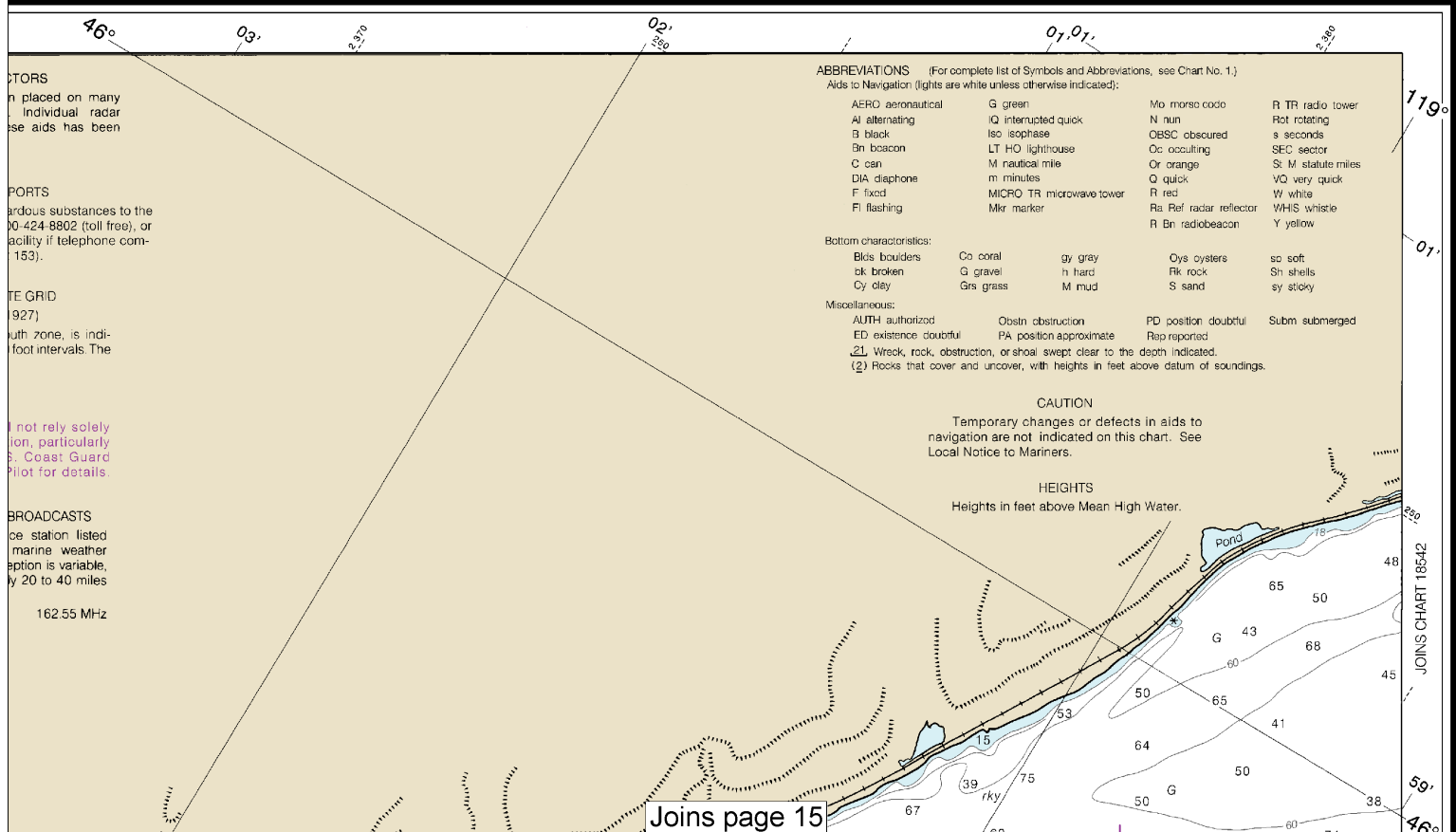
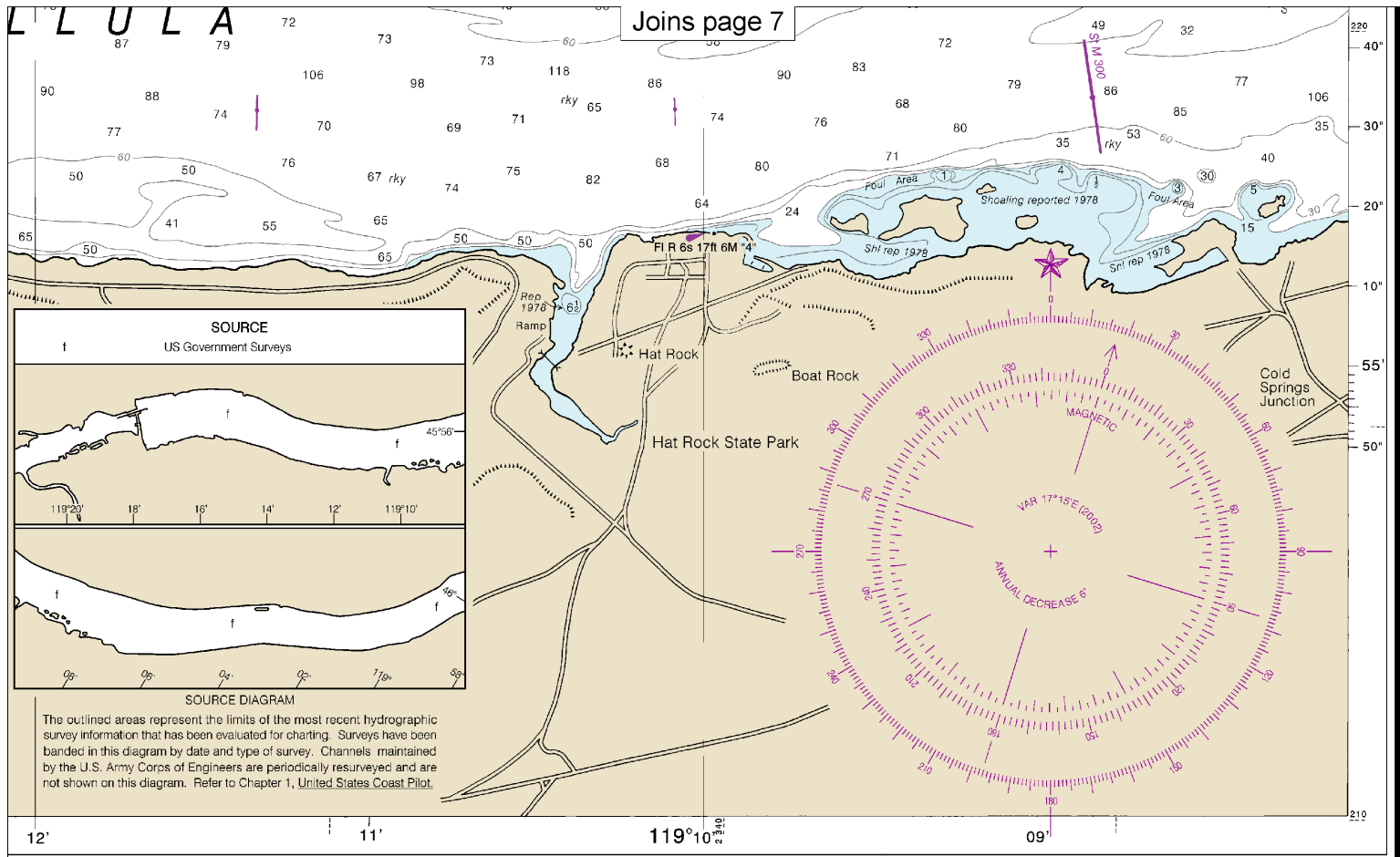




**10**

Note: Chart grid lines are aligned with true north.





Joins page 8

56° 17' 11"

55° 10' 45"

54° 54'

JOINS PANEL ABOVE

65 69 79 80 79 79 45 35 24 35 71 35 69 72 33 80 79 86 85 32 45 64 33 17 2 7 4

76 rky 40 65 69 79 80 79 79 45 35 24 35 71 35 69 72 33 80 79 86 85 32 45 64 33 17 2 7 4

27 S 73 98 73 50 S 74 35 71 75 68 71 74 60 71 35 69 72 33 80 79 86 85 32 45 64 33 17 2 7 4

50 50 68 74 90 83 66 72 68 79 35 80 32 40 S 45 55 78 85 29 28 25 29 40 21 40 80 45 69 64 33 17 2 7 4

Rep 1978 61 FIR 6s 17th 6M 14 Hat Rock Boat Rock Hat Rock State Park

Shl rep 1976 Shl rep 1978 Shl rep 1978

Four Area Four Area

Shoaling reported 1978

W O R ' E FI Y 4s Priv TW O R ' A FI Y 4s Priv

US Hy No 730 & 395 Cold Springs Junction US Hy No 395

SCALE 1:20,000

Nautical Miles

Statute Miles

Yards

Meters

Latitude

Longitude

09° 45° 54' 08° 07° 06°

119° 10' 45° 54' 210° 210°

MAGNETIC

VAR 17° 15' E (2020)

ANNUAL DECREASE 6'

1 1/2 0 1/2 1

500 0 500 1000 1500 2000

500 0 500 1000 1500 2000

1' 50' 40' 30' 20' 10' 0' 50' 1' 50' 40' 30' 20'

This chart has been corrected from the Notice to Mariners published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

18541

8th Ed., Mar. 2002. Last Correction: 10/26/2016. Cleared through:  
LNM: 4816 (11/29/2016), NM: 5016 (12/10/2016), CHS: 1116 (11/25/2016)

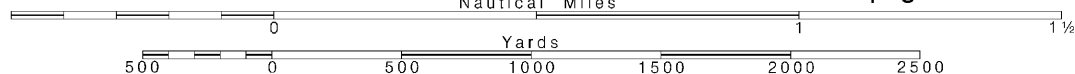
# 12

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

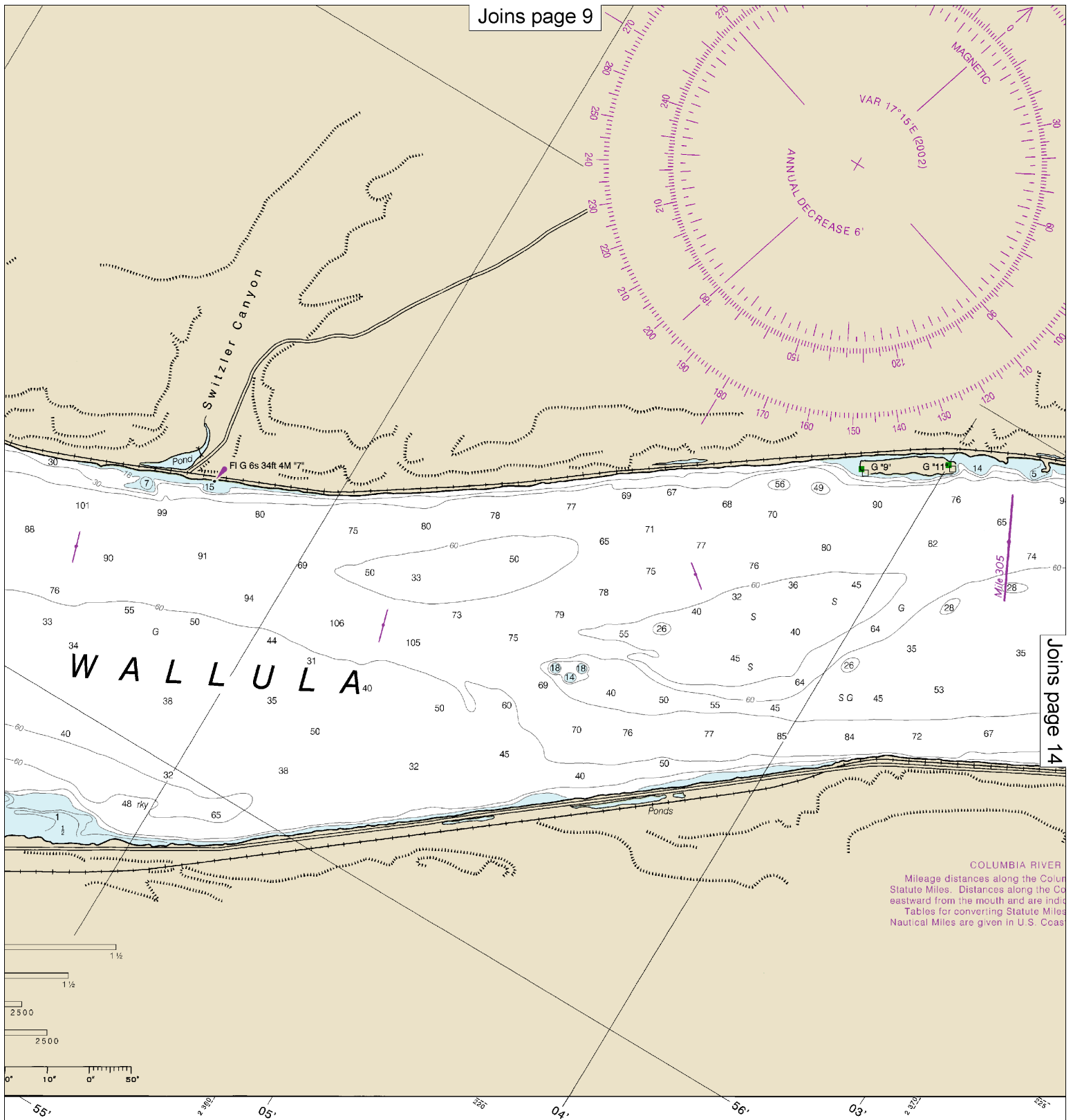
SCALE 1:20,000  
Nautical Miles

See Note on page 5.





Joins page 9



Joins page 14

COLUMBIA RIVER  
Mileage distances along the Columbia River are given in Statute Miles. Distances along the Coast are given in Nautical Miles. Tables for converting Statute Miles to Nautical Miles are given in U.S. Coast

IN FEET

Published at Washington, D.C.  
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SERVICE  
COAST SURVEY

National Response Center via 1-800- to the nearest U.S. Coast Guard facility if communication is impossible (33 CFR 1

(based on NAD 19

Washington State Grid, south  
cated by dashed ticks at 5000 fo  
last 3 digits are omitted.

**WARNING**

The prudent mariner will rely on any single aid to navigation on floating aids. See U.S. Light List and U.S. Coast Pilot.

NOAA VHF-FM WEATHER 8F

The National Weather Service below provides continuous meteorological broadcasts. The range of reception for NOAA broadcasts is good, but for most stations is usually limited to 100 miles from the antenna site.

Pendleton, OR WXL-95

Joins page 13

COLUMBIA RIVER

Mileage distances along the Columbia River are in Statute Miles. Distances along the Columbia River are eastward from the mouth and are indicated thus: —●—

Tables for converting Statute Miles to International Nautical Miles are given in U.S. Coast Pilot 7.

Published at Washington, D.C.  
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SERVICE  
COAST SURVEY

FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	1
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13

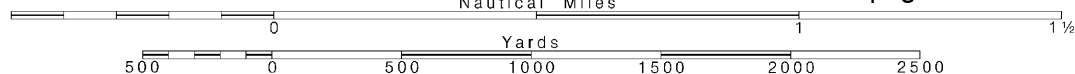
14

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

See Note on page 5.



PO-424-8802 (for free), or  
facility if telephone com-  
153).

TE GRID  
(927)  
outh zone, is indi-  
foot intervals. The

not rely solely  
on, particularly  
S. Coast Guard  
Pilot for details.

BROADCASTS  
ce station listed  
marine weather  
eption is variable,  
y 20 to 40 miles

162.55 MHz

Joins page 11

Bottom characteristics:

Bks boulders  
bk broken  
Cy clay

Co coral  
G gravel  
Grs grass

gy gray  
h hard  
M mud

Oys oysters  
Rk rock  
S sand

so soft  
Sh shells  
sy sticky

Miscellaneous:

AUTH authorized

ED existence doubtful

(2) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.  
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

Obstr obstruction

PA position approximate

PD position doubtful

Rep reported

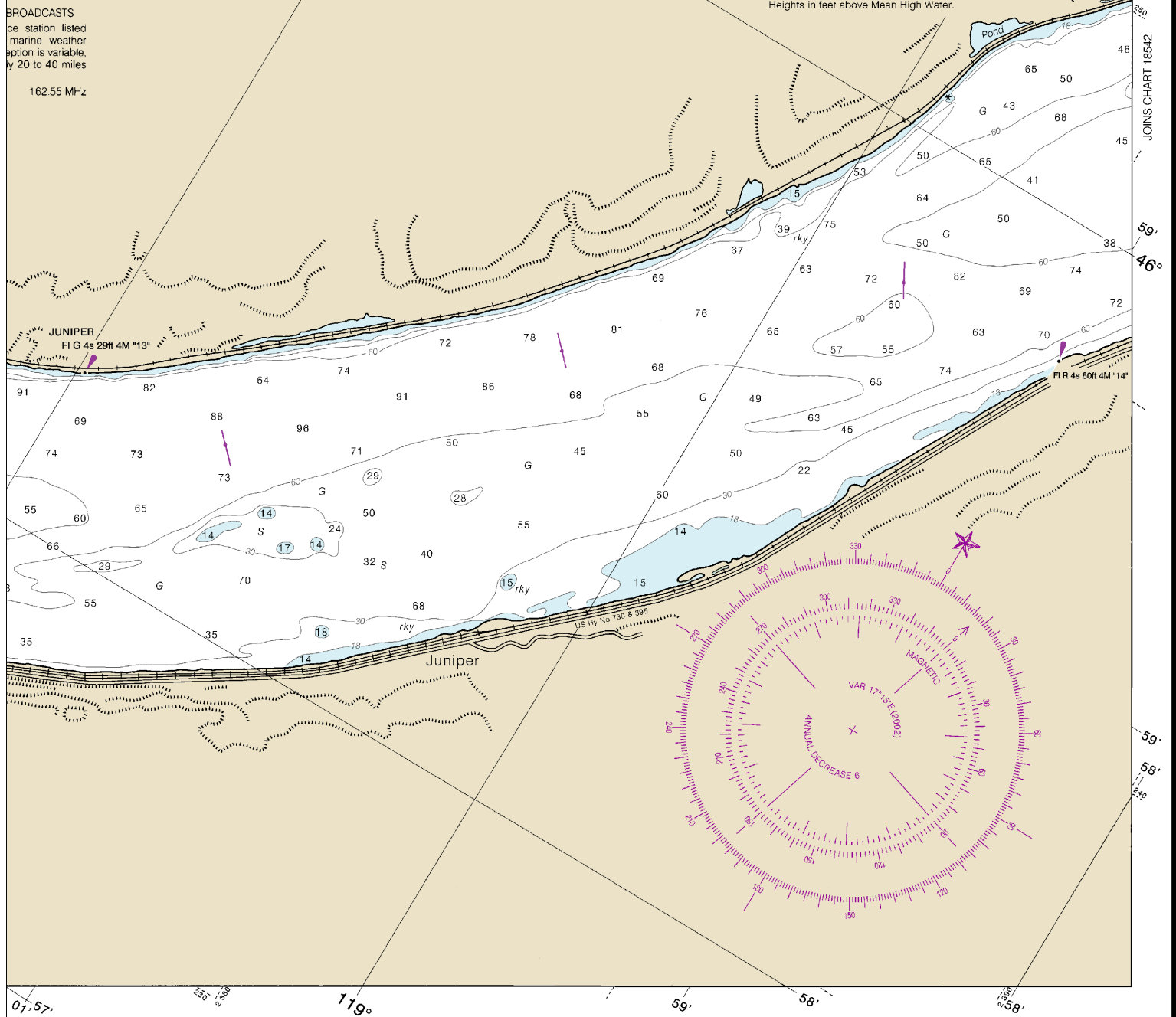
Subm submerged

CAUTION

Temporary changes or defects in aids to  
navigation are not indicated on this chart. See  
Local Notice to Mariners.

HEIGHTS

Heights in feet above Mean High Water.



Columbia River, McNary Dam to Juniper  
SOUNDINGS IN FEET - SCALE 1:20,000

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## VHF Marine Radio channels for use on the waterways:

**Channel 6** – Inter-ship safety communications.

**Channel 9** – Communications between boats and ship-to-coast.

**Channel 13** – Navigation purposes at bridges, locks, and harbors.

**Channel 16** – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

**Channel 22A** – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

**Channels 68, 69, 71, 72 and 78A** – Recreational boat channels.

**Getting and Giving Help** — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



**NOAA Weather Radio All Hazards (NWR)** is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

<http://www.nws.noaa.gov/nwr/>

## Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

**HAVE ALL PERSONS PUT ON LIFE JACKETS!**

## Quick References

Nautical chart related products and information	—	<a href="http://www.nauticalcharts.noaa.gov">http://www.nauticalcharts.noaa.gov</a>
Interactive chart catalog	—	<a href="http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml">http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml</a>
Report a chart discrepancy	—	<a href="http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx">http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx</a>
Chart and chart related inquiries and comments	—	<a href="http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs">http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs</a>
Chart updates (LNM and NM corrections)	—	<a href="http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html">http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html</a>
Coast Pilot online	—	<a href="http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm">http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm</a>
Tides and Currents	—	<a href="http://tidesandcurrents.noaa.gov">http://tidesandcurrents.noaa.gov</a>
Marine Forecasts	—	<a href="http://www.nws.noaa.gov/om/marine/home.htm">http://www.nws.noaa.gov/om/marine/home.htm</a>
National Data Buoy Center	—	<a href="http://www.ndbc.noaa.gov/">http://www.ndbc.noaa.gov/</a>
NowCoast web portal for coastal conditions	—	<a href="http://www.nowcoast.noaa.gov/">http://www.nowcoast.noaa.gov/</a>
National Weather Service	—	<a href="http://www.weather.gov/">http://www.weather.gov/</a>
National Hurricane Center	—	<a href="http://www.nhc.noaa.gov/">http://www.nhc.noaa.gov/</a>
Pacific Tsunami Warning Center	—	<a href="http://ptwc.weather.gov/">http://ptwc.weather.gov/</a>
Contact Us	—	<a href="http://www.nauticalcharts.noaa.gov/staff/contact.htm">http://www.nauticalcharts.noaa.gov/staff/contact.htm</a>



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This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.